

# **A SYSTEM AND METHOD FOR AUTOMATIC AND DYNAMIC LAYOUT OF RESIZABLE DIALOG TYPE WINDOWS**

## **Abstract of Disclosure**

The present invention involves a new system and process for automatically and dynamically laying out elements within an overall window of a graphical user interface by using dynamically resizable frames, i.e., "FlowFrames" disposed within the window. FlowFrames are automatically and dynamically sized and positioned within the window, while one or more other frames, i.e., "child frames," representing one or more conventional controls, nested within the FlowFrames are also sized and positioned within the window as the window is generated or resized. In particular, each FlowFrame arranges its children horizontally in a row, but dynamically wraps them to one or more additional rows and positions them in accordance with predefined relationships between the children, where they cannot all fit into the same row. Further, the size of each FlowFrame is computed hierarchically from its children up to the overall window and then back down to the individual children.

## Figures

Figure 1: A line graph showing the relationship between the number of figures and the number of pages. The x-axis represents the number of figures (0 to 10) and the y-axis represents the number of pages (0 to 10). The data points are as follows:

Number of Figures	Number of Pages
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10